

**ACCESSIBILITY CORRECTION LIST**

**(2002 North Carolina Accessibility Code with 2004 United States Department of Justice Requested Amendments (i.e. USDoJ certified NCAC) and 2006 International Building Code (includes International Fire Code))**

**PLEASE NOTE:** Listed items require correction by revised plans, addenda, field orders, or change orders before plans can be approved for construction. Answers in letter form **are not** acceptable. Starting construction before plans approval may be considered as just cause, by the State, to issue a **stop work** order. [Rule 0780-2-2-.04] **This accessibility correction list is for a cursory review only. It is up to the design professional and owner to comply in full with this accessibility code. See Chapter 32 for Children's Environments.**

**NOTE: CHAPTER 11 OF THE IBC HAS NOT BEEN ADOPTED BY THE STATE OF TENNESSEE FOR ACCESSIBILITY. CHAPTER 11 REFERENCES IN THE BODY OF THE IBC CANNOT BE APPLIED.**

**Egress**

1. Areas accessible to people with severe mobility impairments other than existing buildings shall not have less than two accessible means of egress. [IBC 1007.1] One accessible means of egress will be permitted for where a single means of egress is permitted for the general occupancy load. [IBC T 1004.1.1]
2. Each required means of egress must be continuous and accessible through to the public way including sidewalks, ramps, exit stairs, horizontal exits, etc. [IBC 1007.2]
3. On the level of exit discharge, all means of egress provided shall be accessible through to the public way including sidewalks, ramps, exit stairs, horizontal exits, etc. [IBC 1007.2, and NCAC 6.3.1]
4. When accessible exits are required to be placed  $\frac{1}{2}$  the diagonal dimension apart by IBC 1015.2, separation must be provided to reduce the possibility that both can be blocked by a single fire or emergency event. [IBC 1004.1.4]
5. Egress cannot be through intervening spaces unless the space is singular, accessory to, has a discernable path through, and is not high hazard. [IBC 1014.2(1)]
6. Egress cannot be through any hazardous location such as kitchens, storage rooms, closets, mechanical rooms. [IBC 1014.2(2)]

## **Area of Rescue Assistance**

1. If an exit from an occupiable level above or below the level of exit discharge is inaccessible, then areas of rescue assistance shall be provided on each such level equal to the number of inaccessible exits. [NCAC 6.3.2.1.1 and ADAAG 4.1.3(9)]
2. A compliant horizontal exit may serve as an area of rescue assistance shall discharge to an area of refuge in accordance with 7.2.12. [NCAC 6.3.2.1.2 and ADAAG 4.1.3(9)]
3. An area of rescue assistance shall be one of the following:
  - A. A portion of a stairway landing within a smokeproof enclosure complying with the requirements of a vertical exit enclosure. [NCAC 6.3.2.2.1(1) and ADAAG 4.3.11.1(1)]
  - B. A portion of an exterior exit balcony located immediately adjacent to an exit stair when the balcony is compliant with exit access (opening protections as needed). [IFC 1007.8, NCAC 6.3.2.2.1(2) and ADAAG 4.3.11.1(2)]
  - C. A portion of a one-hour rated fire resistive corridor constructed in compliance with Volume I and located immediately adjacent to an exit enclosure. [NCAC 6.3.2.2.1(3) and ADAAG 4.3.11.1(3)]
  - D. A vestibule connected to an exit enclosure and constructed to the same fire resistive standards required for the stair. [NCAC 6.3.2.2.1(4) and ADAAG 4.3.11.1(4)]
  - E. A portion of a stairway landing within an exit enclosure which is vented to the exterior and is separated from the building interior with doors having a minimum one hour fire resistance rating or higher as required for the exit stair. [NCAC 6.3.2.2.1(5) and ADAAG 4.3.11.1(5)]
  - F. A smoke-tight and rated area or room which provides direct access to an exit from within the room or area shall be provided. If the room or area leads into an exit enclosure which is required to have a fire resistance rating greater than one hour, then the construction of the room or area serving as an area of rescue assistance, including the rating for the door, shall have the same fire resistance rating as that required for the exit enclosure. [NCAC 6.3.2.2.1(6) and ADAAG 4.3.11.1(6)]
  - G. An elevator lobby when it is pressurized in the same manner as elevator shafts (high rise buildings) by supervised smoke detectors located in the lobby. The pressurization equipment (fans and duct work) shall be separated from the remainder of the building by 2-hour fire resistance construction. [NCAC 6.3.2.2.1(7) and ADAAG 4.3.11.1(7)]
4. An area of rescue assistance is not required in fully sprinkled buildings when the building is sprinkled by an approved automatic system. [NCAC 6.3.3.1 and ADAAG 4.1.3(9) exception] The sprinkler system substitution for area of rescue assistance is not applicable for any floor on the level of exit discharge. [NCAC 6.3.1 and ADAAG 4.1.3(9)]

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5. An area of rescue assistance must accommodate two 30 inches by 48 inches wheelchair spaces such that each can be evacuated independently of the other. [NCAC 6.3.2.3.1 and ADAAG 4.3.11.2]
6. An area of rescue assistance must be signed saying “AREA OF RESCUE ASSISTANCE” with Braille. Directional signs must also be provided. [IFC 1007.6.5, NCAC 6.3.2.6.1 & 6.3.2.6.2 and ADAAG 4.3.11.5, 4.3.11.5, & 4.1.3(16)(b)]
7. An area of rescue assistance must be provided with 2-way communications that communicates with the main building entrance, the entrance used by the majority of the occupants or other pre-approved location by the authority having jurisdiction. [IFC 1007.6.3, NCAC 6.3.2.5.1 and ADAAG 4.3.11.4]
8. An area of rescue assistance must be provided with 2-way communications must have back-up independent power. [NCAC 6.3.2.5.4]
9. An area of rescue assistance’s 2-way communications must be provided with operating instructions and not require any tight grasp or grip to operate. [IFC, 1007.6.4, NCAC 6.3.2.5.2 & 6.3.2.5.3 and ADAAG 4.3.11.5]

### Site Access

1. Existing buildings other than change of occupancy shall have no less than one accessible route. [NCAC 3.1 and IBC 1007.1]
2. The main entrance of the building must be accessible unless it meets one of the exceptions below in 2.1 or 2.2. [NCAC 3.1.2, ADAAG 4.3.2, and ADAAG 4.1.7(3)(b)]
  - A. Historical building currently on the National Register of Historical Places for the State of Tennessee and where making the entrance accessible will threaten or destroy the historical significance of the building. A list of places by Tennessee County may be available online at <http://www.nationalregisterofhistoricplaces.com/tn/state.html>. The specific building must be expressly listed on the registry and the designer must include a statement which identifies what distinctive characteristic(s) of the building which will be threatened or destroyed by making the route accessible. This information must be presented directly in the plans required by 0780-2-3-.02 which are submitted and sealed by the designer of record. [NCAC 51.4, ADAAG 4.1.7(2)(a)(ii), ADAAG 4.1.7(2)(b), and Office Policy]
  - B. Historical building currently recognized by the Tennessee Historical Commission as historical and where making the entrance accessible will threaten or destroy the historical significance of the building. The site must be on the list of State Owned Historical Places and a letter by the THC declaring the specific building historical which states the distinctive characteristic(s) of the building which will be threatened or destroyed by making the route accessible. This letter must be attached directly in the plans required by 0780-2-3-.02 which are submitted and sealed by the designer of record. [NCAC 51.4, ADAAG 4.1.7(2)(a)(ii), ADAAG 4.1.7(2)(b), and Office Policy]

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3. The slope of a walk may not exceed 5% (1 in 20 feet). If handrails are provided, the slope may be 8.33% (1 in 12 feet). The walk must have a continuous common surface not interrupted by steps or abrupt changes in grade level greater than ¼ inch. [NCAC 3.3.2 and 3.3.3]
4. A sidewalk may not have a cross slope greater than a ¼ inch per foot. [NCAC 3.3.2]
5. Provide one accessible parking space for each 25 spaces up to 100 total (4%). See Table 4.2.1 for larger lots. [NCAC 4.2.1]
6. Parking spaces must be a minimum of 96 inches wide with a 60-inch access aisle and above ground sign. [NCAC 4.4.1] Show space dimensions and sign location on plans.
7. If parking lots are provided, they must have designated handicapped parking spaces and must be within 200 feet of an accessible entrance. [NCAC 4.1.1 and 4.6.1]
8. The clear width of walks is 48 inches minimum. [NCAC 3.2.1]

### **Ramp**

1. The maximum slope of a ramp may not exceed 1 in 12. [NCAC 5.2.1]
2. Exterior ramps must have a minimum clear width (handrail to handrail) of 48 inches. [NCAC 3.2.1] Interior ramps or ramps in renovation projects must have a minimum clear width of 36 inches. [NCAC 5.2.3]
3. Ramps may not rise more than 30 inches without an intermediate landing. [NCAC 5.3.1]
4. Landings at top and bottom of ramps must be as wide as the ramp (minimum) by 60 inches (NCAC requires 60 inch minimum at top). [NCAC 5.3.3]
5. Ramps at changes of directions must be a minimum of 60" by 60" (NCAC considers ramps to terminate at change of directions). [NCAC 5.3.5]
6. Ramp must have handrails along both sides of a ramp with a rise in excess of 6". [NCAC 5.4.1]
7. Ramp handrails must be mounted 34" minimum and 38" maximum for new handrails above walking surface with a 12-inch horizontal extension at the top and bottom landings. [IBC 1012.2, IBC 1012.5, and NCAC 5.4.2(2) and (3)]
8. Ramp handrails that end at corridors, hallways, etc. must not extend more than 3½ inches into the passageway. [NCAC 5.4.2(7)]
9. Ramp handrails must be 1¼ to 1½ inches in diameter. [NCAC 5.4.2(1)]
10. Provide edge protection for landings, ramps that are next to drop-offs. [NCAC 5.5]

11. Provide a passing space in accessible routes less than 60" wide [NCAC 3.3.4]

## **Doors and Doorways**

1. Doors must have a minimum clear opening of 32 inches when the door is in the full open position (door open 90°). [NCAC 7.2.1]
2. Framed glass doors are required to have a 7½ inch minimum bottom rail or kick-plate which cannot transfer any force to the glass. [NCAC 7.4.1]
3. The distance between two consecutive doors that swing in the same direction must be at least 48 inches plus the width of the widest door swinging into the space. [NCAC 7.3.3.1]
4. Passage doors with latching hardware must be equipped with operating hardware devices that does not require twisting, tight grasps, or any wrist action such as lever handle and push/pull latch. [NCAC 7.9.1.1]
5. Textured surface is required on door handles leading to areas hazardous to people visually challenged or blind (i.e., boiler rooms, electrical equipment rooms, stages, loading docks or platforms, etc.). [NCAC 7.10.1]
6. Door opening force to open:
  - A. Exterior doors if air pressures require stronger closers may be as great as 8.5 pounds. [NCAC 7.6.2]
  - B. Fire doors minimum allowed by the authority having jurisdiction to ensure proper function. [NCAC 7.6.4]
  - C. Interior doors may require no more than 5 pounds force. [NCAC 7.6.1]
7. Vision panels in corridor doors must have the lower edge *no higher than* 40 inches above the finished floor. [NCAC 7.5.1]

## **Stairs**

1. Steps in stairs cannot have squared nosing. [NCAC 8.2.2]
2. Stair handrails must be mounted 34" minimum and 38" maximum above the nosing with a 12-inch horizontal extension at the top landing and continue sloping down one tread's width at the bottom landing and then continue for an additional 12" horizontally. [NCAC 8.3.2, and 8.3.3]
3. Handrail extension, at the top or bottom, must not create a hazard and must be made on the side of a continuing wall or partition. [NCAC 8.3.3]

4. Handrails are to be continuously graspable along their length and not interrupted by newel posts. [NCAC 8.3.6. and 8.3.7, IBC 1012.4]

## **Floor**

1. Floors on a given story must be on a common level throughout or be connected by a ramp in accordance with Chapter 9.1. [NCAC 9.1.2]

## **Grab Bar Requirements**

1. All grab bars shall be 1¼ to 1½ inches in width or outside diameter. [NCAC 11.5.1]
2. The clear hand space must be 1½ inches between the inner face of the grab bar and the finished face of the wall or partition. [NCAC 11.5.2]
3. Grab bars must be able to support a 250 pound load applied in any direction along its length. [NCAC 11.5.3]
4. Grab bar must be mounted on each sidewall not less than 33 inches nor more than 36 inches above finished floor. [NCAC 11.4.3(4)]

## **Toilets, Toilet Rooms, and Stalls**

1. On every floor where toilet rooms are provided one toilet room for men and one toilet room for women must have at least one toilet fixture of each type or 2% of the total toilet fixtures. [NCAC 11.1.2]
2. *Type I* Standard Stall NCAC 11.4.1; Shall comply with the following:
  - A. A 60 inches minimum clear width and a 56 inches minimum clear depth if a wall hung watercloset is used; or, a 59 inches minimum clear depth if a floor mounted fixture is used. [NCAC 11.4.1(1)]
  - B. An outswing, or horizontal sliding, door having a 32 inches minimum clear opening and a 4 inches maximum hinge jamb stile shall be located diagonally opposite the watercloset. [NCAC 11.4.1(2)]
  - C. A clear floor space on the pull side of the door having a 42 inches minimum clear aisle width for an approach towards the pull handle; or, 48 inches minimum for any other type of approach. [NCAC 11.4.1(3)]
  - D. A grab bar on the sidewall adjacent to the watercloset having a 42 inches minimum length with the horizontal centerline 33 inches minimum to 36 inches maximum above the finished floor. The far end of the bar shall be 12 inches maximum from the finished face of the wall behind the fixture. [NCAC 11.4.1(4)]

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- E. A rear wall grab bar having a 36 inches minimum length and located 6 inches maximum from the sidewall adjacent to the watercloset. Height above the finished floor shall be the same as the sidewall grab bar. [NCAC 11.4.1(5)]
3. *Type II Standard Stall* 11.4.2; Shall comply with the following:
- A. A 60 inches minimum width. [NCAC 11.4.2(1)]
  - B. An inswing, or horizontal sliding, door located at the forward end of the stall having a 32 inches minimum clear opening. [NCAC 11.4.2(2)]
  - C. A 92 inches minimum clear length if a wall hung watercloset is used; or, a 95 inches minimum clear length if a floor mounted watercloset is used. [NCAC 11.4.2(3)]
  - D. Sidewall and rear wall grab bars shall comply with NCAC 11.4.1(4) and 11.4.1(5).
4. In addition to a Type I or Type II Standard Stall NCAC 11.4.3; If *six or more* watercloset stalls are provided in any toilet room, then a stall complying with the following shall also be provided:
- A. A *36 inches wide stall having a* 66 inches minimum depth if a wall hung watercloset is used; or, a 69 inches minimum depth if a floor mounted watercloset is used. [NCAC 11.4.3(1)]
  - B. A self-closing outswing, or horizontal sliding, door having a 32 inches minimum clear opening and located at the stall front. [NCAC 11.4.3(2)]
  - C. An approach to the door that complies with 11.4.1(3). [NCAC 11.4.3(3)]
  - D. One grab bar having a 42 inches minimum length on each side of the stall. Each grab bar shall be located 12 inches maximum from the finished face of the rear wall and both horizontal centerlines shall be 33 inches minimum to 36 inches maximum above the finished floor. [NCAC 11.4.3(4)]
5. NCAC compliant TOILET ROOM must:
- A. Provide 60" by 60" clear floor space, 60" diameter turning circle or a "T" shaped configuration which is 60" square with 36" x 60" arms in toilet room whether group or individual. [NCAC 11.3.1]
  - B. The swing of a toilet room entry door may overlap the minimum clear floor area by a maximum of 12 inches. [NCAC 11.3.2.2]
  - C. Where floor space is limited, toe space of not less than 6" deep and 9" high under toilets and cabinets may be permitted to supplant a part of the required floor space. [NCAC 11.3.1.2]

- D. Have an out-swinging door which provides a minimum clear opening of 32 inches when the door is in the full open position (door open 90o) or for in-swinging doors configured such that a partition or wall located adjacent to the strike jamb on the pull side of an interior or exterior door must not be less than 12 inches (for doors swinging away from the person) or 18 inches (if the door needs to be pulled in towards the person) from the jamb, respectively. [NCAC 7.2.1 and NCAC 7.3.1]
- 6. An accessible watercloset shall be 18 inches from the adjacent sidewall. The height to the top of the seat shall be *17 inches minimum to 19 inches maximum*. If a contoured seat is used, then the height to the top shall be measured at the forward one-third of the seat. [NCAC 11.6.1(1)]
- 7. All grab bars must comply with NCAC 11.5.
- 8. Accessible lavatories must have:
  - A. Clear FLOOR SPACE of 30 inches wide by 48 inches long in front of the sink and extend at maximum of 19 inches under the lavatory. [NCAC 11.6.2(3)]
  - B. Lavatory rim must be 34" maximum above the finished floor providing clear KNEE SPACE of at least 29". [NCAC 11.6.2(1)]
  - C. Clear KNEE SPACE of 8" deep at 27" minimum above the finished floor ("*Accessible Lavatory*"). Toe space must be 6" deep and 9" high minimum. [See Figure 11.6.2]
- 9. Lavatory water activation must not require a tight grasp, pinching motion, or wrist twisting motion (i.e. lever, blade, automatic, etc.). [NCAC 11.6.2(6)]
- 10. For NCAC compliance, hot water supply and drain lines must be protected to prevent accidental burns when the water supply temperature is 120oF or higher. [NCAC 11.6.2(5)]
- 11. Urinals must have a 14 inch minimum elongated bowl with rim located a maximum of 17 inches above the finished floor. [NCAC 11.6.3(1) and 11.6.3(2)]
- 12. Lavatory mirrors, when provided, are placed no higher than 40" above the finished floor. [NCAC 11.7.1]
- 13. Where provided the top surface of shelves must be within 40 inches of the floor. [NCAC 11.7.2]
- 14. If towel bars, dispensers and other toilet accessories, coin slots, operating mechanisms, etc. are provided, they must be a maximum height of 48 inches above the finished floor. [NCAC 11.7.3(1)]

## **Bathtubs**

- 1. NCAC accessible compliant bathtubs:



- A. SIDE APPROACH bathtubs with an in-tub seat must have clear floor space of 60" by 30" parallel to the tub. [NCAC 12.4.2.1]
  - B. FRONT APPROACH bathtubs with an in-tub seat must have clear floor space of 60" by 48" perpendicular to the bathtub. [NCAC 12.4.2.2]
  - C. SIDE APPROACH bathtubs with an in-tub seat at the HEAD OF THE TUB must have clear floor space of 75" by 30" parallel to the tub. [NCAC 12.4.3.1]
  - D. FRONT APPROACH bathtubs with an in-tub seat at the HEAD OF THE TUB must have clear floor space of 75" by 48" perpendicular to the bathtub. [NCAC 12.4.3.2]
  - E. An in-tub seat which can support 250 pounds must be provided at the head of the tub and shall be 15" wide minimum. [NCAC 12.4.1.5]
2. Grab bar location and mounting heights [NCAC 12.4.6]
- A. CONTROL END WALL – one grab bar 24" long with its forward end near the open end; the horizontal centerline 33"-36" above the finished floor. [NCAC 12.4.6.1]
  - B. WALL PARALLEL TO TUB – (a) built-in or built-up seat opposite control wall: Two parallel grab bars 48" minimum with one end 12" from the control end wall, or (b) in-tub seat: Two parallel grab bars 24" minimum with one end 12" from the control end wall, and (c) for either type of seat and either size grab bar: the lower bar's centerline must be 9" above floor rim of tub and the upper bar's centerline between 33" and 36" above finished toilet floor. [NCAC 12.4.6.2(1), (2), and (3)]
  - C. END WALL OPPOSITE THE CONTROL WALL
    - 1. Built-up or built-in seat directly opposite control wall no handrail shall be required. [NCAC 12.4.6.3(1)]
    - 2. In-tub seat needs one 12" long grab bar, with forward end near the open end of tub, with centerline between 33" and 36" above finished floor. [NCAC 12.4.6.3(2)]

## **Showers**

- 1. On every floor and each site where showers or bathtubs are provided, each public or common use bathing facility shall have a minimum of one shower stall or one bathtub that complies with this Chapter (see, also, 1.2.11). [NCAC 12.1.1]
- 2. Doors may be used only with roll-in type shower enclosures, must have 36 inches minimum clear opening, and must always swing out or be sliding or folding type door. [NCAC 12.1.3.1]
- 3. Shower enclosures must have a non-slip finished floor surface. [NCAC 12.1.5]

4. Transfer-type showers may have a maximum 1/2 inch high curb or threshold for water retention. Roll-in showers shall not have a curb or threshold. [NCAC 12.1.6]
5. A flexible, hand-held shower spray having a 60 inches minimum length shall be provided. The spray unit shall serve as a fixed shower head and a hand-held shower. The spray unit shall be located on the centerline of the control wall. [NCAC 12.2.5]
6. Pre-fabricated or pre-manufactured shower enclosures may be used, provided they conform to the NCAC or are certified that they conform to ANSI A117.1. [NCAC 12.1.9]
7. If a seat is provided for a roll in showers, then it shall be folding type and comply with NCAC 12.2.2(1) and (2), and NCAC 12.3.2.4.

### **Drinking Fountains and Water Coolers**

1. Where provided, drinking fountains and/or water coolers must have up spout and up front controls and spouts; and water stream must rise at least four inches above the spout. [NCAC 13.1.2 and 13.1.3]
2. Spouts shall be 36 inches maximum above the finish floor or ground level measured from the spout outlet. [NCAC 13.1.4]
3. Fully cantilevered and wall mounted fountains must have a minimum of 27 inches for knee space. [NCAC 13.2.3]
4. The clear floor space required at a drinking fountain must be a minimum of 30 inches wide by 48 inches long. The long dimension must be parallel to the direction of approach. [NCAC 13.2.1]

### **Elevators**

1. An elevator is required for this building by TCA 68-120-204(a)(1) and/or NCAC 15.2.
2. Limited Use/Limited Application (LULA) elevators may not be used. [TCA 68-120-204, Rule 0620-2-3-.02, and Rule 0780-2-2-.01(1)(b)]
3. Cabs with center opening doors shall have an 80 inches minimum width and a 51 inches minimum depth. The depth of the cab from the inside face of the cab doors to the wall opposite shall be 54 inches minimum (Figure 22(a)). [NCAC 15.4.1]
4. Cabs with side-slide doors shall have a 68 inches minimum width and a 51 inches minimum depth. The depth of the cab from the inside face of the cab door(s) to the wall opposite shall be 54 inches minimum (Figure 22(b)). [NCAC 15.4.2]
5. Elevator cab controls must meet the following:

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- A. Elevator cab control floor buttons must be a maximum of 54 inches above the cab floor for a side approach and maximum of 48 inches for a front approach. [NCAC 15.9.2]
  - B. Emergency controls must be a maximum of 35 inches above the cab floor. [NCAC 15.9.3]
  - C. Control buttons must be a minimum of  $\frac{3}{4}$  inch in their smallest dimension. [NCAC 15.9.4]
  - D. Control buttons shall be designated by standard alphabet letters, Arabic numerals, or standard symbols as required in ANSI/ASME A17.1-1996 and located to the left of the corresponding control button. [NCAC 15.9.5]
  - E. Visual and audible car position indicators must be provided to sound at each floor. [NCAC 15.9.6.1]
- 6. Elevator doors shall remain fully open in response to a car call for a minimum of 3 seconds. NCAC 15.7.4 & ADAAG 4.10.8]
  - 7. Interior and exterior standing/wearing surfaces of elevator cabs shall be fixed, firm and non-slip. NCAC 15.8.1 & 9.1.1, ADAAG 4.1.3(3) & 4.5.1]
  - 8. Platform wheelchair lifts may not be used to access one additional story of a building. [NCAC 15.11.1.1] Their use is for accessing spaces on the same floor level: e.g., performing area, incidental occupiable spaces, courtroom benches, jury boxes, etc.
  - 9. Platform wheelchair lifts must conform to the following:
    - A. The minimum clear platform for a wheelchair lift must be 30 inches by 48 inches. [NCAC 15.11.2.5]
    - B. A wheelchair lift platform must have a maximum clear floor area of 18 square feet. [NCAC 15.11.2.6]
    - C. Vertical travel distance cannot exceed 12 feet. [NCAC 15.11.2.9]
    - D. Wheelchair lift platform must have a non-slip finished surface and have an automatically retractable access ramp/guardrail. [NCAC 15.11.2.7]
    - E. Platforms must have solid guardrails that are a minimum of 42 inches high. [NCAC 15.11.2.8]

**Residential**

- 1. In no instance shall handicapped units be segregated from other units within the project. [NCAC 30.3.1 and 29.2.1]
- 2. All transient lodging buildings and facilities shall provide accessible sleeping rooms or suites in compliance with the following: [NCAC 29.4.1] ADAAG 9.1.2

TOTAL NUMBER OF ROOMS	MINIMUM NO. OF ROOMS REQUIRED TO BE ACCESSIBLE	MINIMUM NO. OF ADDITIONAL ROOMS REQUIRED TO HAVE A ROLL-IN SHOWER	TOTAL NO. OF ACCESSIBLE ROOMS
1 to 25 .....	1 (4%) .....	0 .....	1
26 to 50 .....	2 (4%) .....	0 .....	2
51 to 75 .....	3 (4%) .....	1 .....	4
76 to 100 .....	4 (4%) .....	1 .....	5
101 to 150 .....	5 (3%) .....	2 .....	7
151 to 200 .....	6 (3%) .....	2 .....	8
201 to 300 .....	7 (2%) .....	3 .....	10
301 to 400 .....	8 (2%) .....	4 .....	12
401 to 500 .....	9 (2%) .....	4 plus one for each additional 100 over 400 ..	13+
501 to 1,000 ...	2% of total .....	4 plus one for each additional 100 over 400 ..	13+
1,001 & over .	20 plus 1 for each 100 over 1,000	4 plus one for each additional 100 over 400 ..	13+
(NOTE: Percentages are shown only for the purposes of calculating the number of accessible beds in homeless shelters having multi-bed rooms or spaces in place of, or in addition to, individual sleeping rooms. See the example following <a href="#">§29.6.2.2.</a> ) <a href="#">ADAAG §9.5.3, 2nd Paragraph</a>			

4. If alarm indicating appliances are provided, then audible and visual appliances complying with this Chapter shall be installed. [NCAC 17.1.1, 29.5.3, and 29.5.3.1.3]
5. Accessible kitchens must comply with NCAC 30.4.4.1.1 and 30.5.4.1.1.

## Assembly Seating

1. General requirements
  - A. In places of assembly with fixed seating, accessible seating for persons in wheelchairs shall be provided in compliance with the following table: NCAC 22.1.1.
  - B. Spaces designated for use by persons in wheelchairs shall not be located directly on the sloping or stepped parts of the floor area but shall be on level areas or platforms having dimensions as specified in NCAC 22.3. Floor surfaces at accessible seating locations shall comply with Chapter 9. Wheelchair seating spaces shall not reduce the required aisle width. [NCAC 22.1.1.1]

2. All wheelchair seating must have access by an accessible route to performing areas (i.e., stages, arena floors, dressing and locker rooms, etc.) used by performers, entertainers, athletes, etc. [NCAC 22.1.4]
3. Wheelchair space requirements:
  - A. FRONT or REAR APPROACH must have a space 33" by 48" long. [NCAC 22.3.1(1)]
  - B. SIDE APPROACH must have a space 33" by 60" long. [NCAC 22.3.1(2)]
4. Listening aids and devices must be installed in accordance with NCAC 22.4.1]

### **Instructional Facilities, Dining Halls, Libraries, Etc**

1. Where fixed tables, workstations, etc. are used (e.g., lecture and dining halls, science laboratories, kitchens, etc.) at least one (or 5% of total) must be designated for accessibility. [NCAC 21.1.1, 23.1.2, 25.1.1, and 26.1.1]
2. All libraries with fixed facilities must meet accessibility requirements. [NCAC 25.1.1 and 25.1.2]
3. The clear width between book stacks shall be 36 inches minimum. Shelf height in book stack areas shall not be restricted. [NCAC 25.2.1 and 25.2.2]
4. Accessible check-out aisles shall have a minimum 36 inches clear width. [NCAC 26.3.2.1]
5. Accessible counters shall have the top surface at 38 inches maximum above the finished floor. The top of the rim or lip shall be located 40 inches maximum above the finished floor. [NCAC 26.3.2.1 and 26.3.2.2]

### **Children's Environments**

**Note: Children are defined as persons twelve (12) years of age and younger [NCAC 32.1.1 and ADAAG-Summary, 1/13/98 Federal Register at 2060]**

1. If a designated school loading zone is provided then a minimum of one covered accessible entrance must be provided. [NCAC 32.2.1.1]
2. Any designated school loading zone is provided must be a minimum of 12 feet by 50 feet long. [NCAC 32.2.1.1]
3. Ramp and stair handrails in children's environment must be located 28 inches (710 mm) maximum above the finished ramp walking surface and/or common line of stair nosings. A gap of 9 inches (75 mm) minimum must be maintained between the children (lower) and adults' (upper) handrails mounted 34 inches to 38 inches maximum above the finished

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ramp walking surface and/or common line of stair nosings. [NCAC 32.2.3.1, ADAAG AG4.8.5 & AG4.9.5; FR 1/13/98 At 2063]

4. Objects and systems with controls in dedicated children's environments must be reach range adjusted according to NCAC Table 3202. [NCAC 32.2.15.1]

TABLE 3202 REACH RANGE			
FORWARD OR SIDE REACH	AGES		
	3 AND 4	5 THRU 8	9 THRU 12
High (Maximum)	36 inches (915 mm)	40 inches (1015 mm)	44 inches (1120 mm)
Low (Minimum)	20 inches (510 mm)	18 inches (455 mm)	16 inches (405 mm)

5. Waterclosets, flush-handles, grab bars, and accessories' positional dimensions must be modified for age appropriate usage according to NCAC Table 3201 in dedicated children's toilet facilities such as day cares, after-school programs and elementary schools. [NCAC 32.2.4, 32.2.5, 32.2.6, 32.2.7, & 32.2.8]

TABLE 3201			
ELEMENT	AGES		
	3 AND 4	5 THRU 8	9 THRU 12
Watercloset Centerline	12 inches (305 mm)	12 To 15 inches (305 to 380 mm)	15 to 18 inches (380 to 455 mm)
Seat Height	11 to 12 inches (280 to 302 mm)	12 to 15 inches (305 to 380 mm)	15 to 17 inches (380 to 430 mm)
Grab Bar Mounting Ht.	18 to 20 inches (455 to 510 inches)	20 to 25 inches (510 to 635 mm)	25 to 27 inches (635 to 685 mm)
Toilet Tissue Dispenser Height	14 inches (355 mm)	14 to 17 inches (355 to 430 mm)	17 to 19 inches (430 to 485 mm)

6. Fixed or built-in storage facilities, (e.g., cabinets, shelves, drawers, etc.) shall be located at 20 inches (510 mm) minimum to 44 inches (1120 mm) maximum above the finished floor. [NCAC 32.2.17.1]

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7. Clothes hanger rods, hooks, or shelves shall be located 36 inches (915 mm) minimum to 44 inches (1120) maximum above the finished floor. [NCAC 32.2.17.2]
8. For seating at tables, knee clearance shall be 24 inches (610 mm) minimum from the finished floor to the underside of the table, work station, carrel or other fixed facility. The clear floor space shall extend 19 inches (485 mm) maximum under the table, work station, etc. [NCAC 32.2.18.1, ADAAG 4.32.5(1), & 4.32.5(2)]
9. The finished working surface at fixed tables shall be 26 inches (660 mm) minimum to 30 inches (760 mm) maximum above the finished floor. [32.2.18.2 & ADAAG 4.32.5(3)]
10. In cafeterias the food service lines shall have a 44 inches (1120 mm) minimum clear width. [NCAC 32.2.19.1]
11. In cafeterias and food service lines, the top of the tray slide shall be 30 inches (760 mm) maximum above the finished floor. [NCAC 32.2.19.2]
12. If tableware, dishware, condiments and beverage dispensers, etc. are provided on a self-service basis, then such items shall be located 36 inches (915 mm) maximum above the finished floor. [NCAC 32.2.19.4]

**Protruding Objects**

1. Walks, halls, corridors, passageways, aisles or other circulation spaces shall have an 80 inches (2030 mm) minimum clear headroom. [NCAC 10.2.1 & ADAAG 4.4.2]
2. If at any point headroom is reduced to less than 80 inches (2030 mm), at the point immediately below that projection a barrier 27 inches (685 mm) high must be installed and so installed such that it is aligned with projection above. [NCAC 10.2.2 & ADAAG 4.4.2 Figure 8(c1)]
3. Ramp and stair handrails protruding 3-1/2 inches or more into circulation paths must extend within 27 inches of the finished floor. [NCAC 10.3.1 & ADAAG 4.4.1]
4. Post or pylon mounted free-standing objects must be 12 inches or less deep or must extend within 27 inches of the finished floor. [NCAC 10.4.3]
5. If a single protruding or projecting object has a width of 24 inches (610 mm) or less, then the minimum clear width at the point of passage may be reduced to 44 inches (1120 mm) for an exterior accessible route and 32 inches (815 mm) for an interior accessible route. [NCAC 10.5.1 & ADAAG Figure 8(e)]